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Main Menu	Search Form	Posting Counts	Show S Numbers	Edit S Numbers	Preferences	Cases

Search Results -

Terms	Documents
L30 and geographic same database	18

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Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L31	L30 and geographic same database	18	L31
L30	peano near tree or kd-tree	34	L30
L29	L26 and (sub-areas or subareas)	3	L29
L28	L27 and kd-tree or peano same tree	16	L28
L27	L26 and sub-areas or subareas	1164	L27
L26	L25 and parcel	217	L26
L25	map and database	18275	L25
DB=USPT; PLUR=YES; OP=OR			
L24	5471392.pn.	1	L24
L23	5648768.pn.	1	L23
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L22	L21 and index	20	L22
L21	L20 and rectangle	25	L21
L20	L19 and parcel	83	L20
L19	geographic same database	1748	L19
DB=USPT; PLUR=YES; OP=OR			
L18	5699255.pn.	1	L18
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L17	L15 and index	29	L17
L16	L15 and sub-areas	0	L16
L15	L14 and parcels	37	L15
L14	L13 and geographic same features	225	L14
L13	map with database	4179	L13
L12	(((340/991)!.CCLS.))	132	L12
L11	(((340/990)!.CCLS.))	722	L11
L10	(((340/995)!.CCLS.))	1477	L10
L9	(((340/395)!.CCLS.))	0	L9
L8	(((340/390)!.CCLS.))	0	L8
L7	(((340/$)!.CCLS.))	95513	L7
L6	(((701/209)!.CCLS.))	355	L6
L5	(((701/200)!.CCLS.))	810	L5
L4	(((701/$)!.CCLS.))	20215	L4
L3	(((707/$)!.CCLS.))	13156	L3
L2	(((707/104.1)!.CCLS.))	1534	L2
L1	((707/101)!.CCLS.)	821	L1

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L17: Entry 14 of 29   File: USPT   Sep 19, 2000

US-PAT-NO: 6121924
DOCUMENT-IDENTIFIER: US 6121924 A

TITLE: Method and system for providing navigation systems with updated geographic data

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meek; James A.	Palatine	IL		
Crowley; Paul	Buffalo Grove	IL		
Bouzide; Paul M.	Chicago	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Navigation Technologies Corporation	Rosemont	IL			02

APPL-NO: 9/ 000570   [PALM]
DATE FILED: December 30, 1997

INT-CL: [7] H04 B 7/185, G01 S 5/02

US-CL-ISSUED: 342/357.13; 701/208, 701/210, 340/995
US-CL-CURRENT: 342/357.13; 340/995, 701/208, 701/210

FIELD-OF-SEARCH: 342/357.13, 701/208, 701/209, 701/210, 701/212, 340/990, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| Search Selected | | Search ALL |

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5367685	November 1994	Gosling	
☐	5944768	August 1999	Ito et al.	701/200
☐	5951620	September 1999	Ahrens et al.	701/200

ART-UNIT: 362
PRIMARY-EXAMINER: Blum; Theodore M.
ATTY-AGENT-FIRM: Kozak; Frank J. Kaplan; Lawrence M.

ABSTRACT:

A system and method for providing updated geographic data for use by a navigation application program. The navigation application program is at a first version level

and uses geographic data in a geographic database. An updated geographic database is provided to the navigation application program. The updated geographic database is at a second version level which is later than the first version level. Also provided to the navigation application program are one or more replacement routines. These replacement routines may be stored with the updated geographic database on a computer-readable medium or may be provided separately. The one or more replacement routines are used by the navigation application program either at initialization or during runtime. The one or more replacement routines are called to access or use the data in the updated geographic database. The one or more replacement routines are preferably in an interpretive language and executed by a virtual processor. The virtual processor may be part of the navigation application program. The one or more replacement routines can be used by the navigation application program thereby enabling the navigation application program which is at the first version level to use the updated geographic data which is at second version level.

22 Claims, 11 Drawing figures

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5648768 A

L23: Entry 1 of 1   File: USPT   Jul 15, 1997

US-PAT-NO: 5648768
DOCUMENT-IDENTIFIER: US 5648768 A

TITLE: System and method for identifying, tabulating and presenting information of interest along a travel route

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bouve; Thomas Tracy	Alexandria	VA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mapsys, Inc.	Alexandria	VA			02

APPL-NO: 8/ 366642
DATE FILED: December 30, 1994

INT-CL: [6] G08 G 1/123

US-CL-ISSUED: 340/988; 340/905, 340/995, 364/449.1
US-CL-CURRENT: 340/988; 340/905, 340/995, 701/207

FIELD-OF-SEARCH: 340/988, 340/905, 340/990, 340/995, 364/444, 364/449, 73/178R, 342/457

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

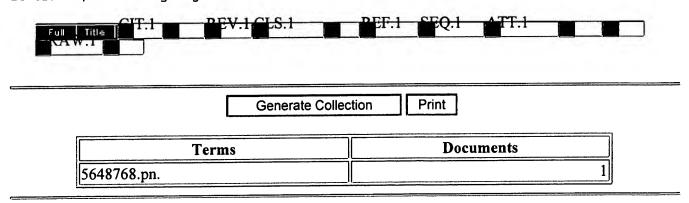| PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4546439	October 1985	Esparza	340/995
4570227	February 1986	Tachi et al.	340/995
4630209	December 1986	Saito et al.	340/995
4646089	February 1987	Takanabe et al.	340/995
4675676	June 1987	Takanabe et al.	340/995
4951211	August 1990	De Villeroche	340/995
4951212	August 1990	Kurihara et al.	340/995
4974170	November 1990	Bouve et al.	340/995
5021961	June 1991	Ross et al.	340/990
5031104	July 1991	Ikeda et al.	340/995
5146219	September 1992	Zechnall	340/995
5172321	December 1992	Ghaem et al.	340/995
5220507	June 1993	Kirson	340/995
5371678	December 1994	Nomura	340/995
5424951	June 1995	Nobe et al.	340/995
5442557	August 1995	Kaneko	340/995

ART-UNIT: 267
PRIMARY-EXAMINER: Swarthout; Brent A.
ATTY-AGENT-FIRM: Lowe, Price, LeBlanc & Becker

ABSTRACT:

A system for identifying and presenting information relating to travel within a
geographic region, has a data base for storing a plurality of travel routes within
the geographic region and one or more types of travel information associated with
one or more of the plurality of travel routes. A keyboard or other device is
provided to input first and second geographic locations within the geographic region
to the system. A computer processor retrieves at least one travel route between the
first and second geographic locations from the stored plurality of travel routes.
The processor also retrieves travel information corresponding both to at least one
type of travel information and to the retrieved travel route(s) from the stored
types of travel information. A display, printer or voice synthesizer presents the
retrieved travel route(s) and travel information to a user of the system. The
processor also computes cumulative mileage and travel time indicators which locate
items of retrieved travel information with respect to the selected travel route.

14 Claims, 6 Drawing figures

Full | Title | CIT.1   REV.1 CLS.1   REF.1 SEQ.1   ATT.1
RAW.1

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Terms	Documents
5648768.pn.	1

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Previous Page   Next Page